

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s):	Maute	Attorney Docket No.:	RSE002-D1
Serial No.:	TBD	Group Art Unit:	TBD
Filed:	Herewith	Examiner:	TBD
Title:	Conductive Fluid Logging Sensor and Method		

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

The references cited on the enclosed PTO Form 1449 are all of record in the parent of this divisional application, application serial no. 09/880,402, filed June 13, 2001. Therefore a copy of the citations has not been included.

It is requested that the information disclosed herein be made of record in this application.

Respectfully submitted,



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				Application Number	TBD
				Filing Date	Herewith
				First Named Inventor	Maute
				Art Unit	TBD
				Examiner Name	TBD
				Attorney Docket Number	RSE002-D1
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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	1	US-3,076,334	02-05-1963	Wiley	
	2	US-RE28,989	10-05-1976	Cushing	
	3	US-4,228,350	10-14-1980	Paap, et al.	
	4	US-4,969,363	11-13-1990	Mochizuki	
	5	US-5,251,479	12-12-1993	Siegfried, II, et al.	
	6	US-5,297,425	03-29-1994	Hamby, et al.	
	7	US-5,388,455	02-14-1995	Hamby, et al.	
	8	US-5,551,287	09-03-1996	Maute, et al.	
	9	US-6,173,793	01-16-2001	Thompson, et al.	
	10	US-6,431,011	08-13-2002	Feller	
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FOREIGN PATENT DOCUMENTS						
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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	11	GB- 811 347 A	04-02-1959	Philips Electrical Ind Ltd		
	12	GB- 2 064 130 A	06-10-1981	Hemp, J.		
	13	WO 01/11190 A1	02-15-2001	Chyzak, et al.		

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	14	MAUTE, R.E., "A Guide to Diagnosing Your Wells: Production Logging," Probe Technology Services, Inc., 2000.	
	15	HILL, A.D., et al., "Production Logging Tool Behavior in Two-Phase Inclined Flow," 56 <sup>th</sup> Annual Fall Technical Conference and Exhibition of the Society of Petroleum Engineers of AIIME, San Antonio, TX, Oct. 5-7, 1981.	
	16	BRANAGAN, P., et al., "Tests Show Production Logging Problems in Horizontal Gas Wells," Oil & Gas Journal, Jan. 10, 1994, pp. 41-45.	
	17	KELMAN, J.S., "Biphasic Fluid Studies for Production Logging in Large-Diameter Deviated Wells [sic]," The Log Analyst, Nov. - Dec. 1993, pp. 6-10.	
	18	DING, Z.X., et al., "A Comparison of Predictive Oil/Water Holdup Models for Production Log Interpretation in Vertical and Deviated Wellbores," SPWLA 35 <sup>th</sup> Annual Logging Symposium, June 19-22, 1994, pp. 1-18.	
	19	NICE, S.B., "Production Logging in Horizontal Wellbores," 5 <sup>th</sup> World Oil et al. Horizontal Well Technology Int. Conference (Houston) Proc., sect 11, Nov. 1993.	
	20	ZHU, D., et al., "The Effect of Flow from Perforations on Two-Phase Flow: Implications for Production Logging," 63 <sup>rd</sup> Annual Technical Conference and Exhibition of the Society of Petroleum Engineers, Houston, TX, Oct. 2-5, 1988, pp. 267-275.	
	21	MOLZ, F.J., et al., "Development and Application of Borehole Flowmeters for Environmental Assessment," The Log Analyst, Jan.-Feb. 1993, pp. 13-23.	
	22	ROSS, G., "The Electromagnetic Flowmeter as Applied to the Measurement of Blood Flow in Living Systems," Symposium on Flow: Its Measurement and Control in Science and Industry, Vol. 1, Pittsburgh, PA, 1971, pp. 1337-1345.	
	23	CUSHING, V.J., "Electromagnetic Water Current Meter," Water Resources Instrumentation, Vol. 1 Measuring and Sensing Methods, Proceedings of the International Seminar and Exposition on Water Resources Instrumentation, June 4-6, 1974, Chicago, IL, pp. 35-55.	
	24	RAZI, M., et al., "Characterizing Flow through a Perforation Using Ultrasonic Doppler," Production Operations Symposium, Oklahoma City, OK, Apr. 2-4, 1995, pp. 943-953.	

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	25	BAKER, R.C., "A Review of Some Applications of Electromagnetic Flow Measurement," Symposium on Flow: Its Measurement and Control in Science and Industry, Vol. 1, Part 2, Flow Measuring Devices, 1971, pp. 745-753.	
	26	FLOOD, J. "Single-Sensor Measurement of Flow in Filled or Partially Filled Process Pipes," Sensors Magazine, September 1997.	
	27	DONEY, B., "EMF Flow Measurement in Partially Filled Pipes," Sensors, October 1999, pp. 65-68.	
	28	MAUTE, B., "Practical Interpretation of Production Logs," Version 9.0, Customized for the China National Oil and Gas Exploration & Development Corporation, Earth Resource and Environment Center, The University of Texas at Arlington, Dec. 17-19, 1997, pp. 1-160.	
	29	International Search Report for Corresponding International Application No. PCT/US 02/16895, dated September 24, 2002.	

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